## PRODUCT INFORMATION PACKET



Model No: TCA0301AE231GAA009

Catalog No: R845

TerraMAX® Cast Iron Motor, 40 & 30 HP, 3 Ph, 60 & 50 Hz, 230/460 & 200/400 V, 3600 & 3000 RPM,

200L Frame, TEFC







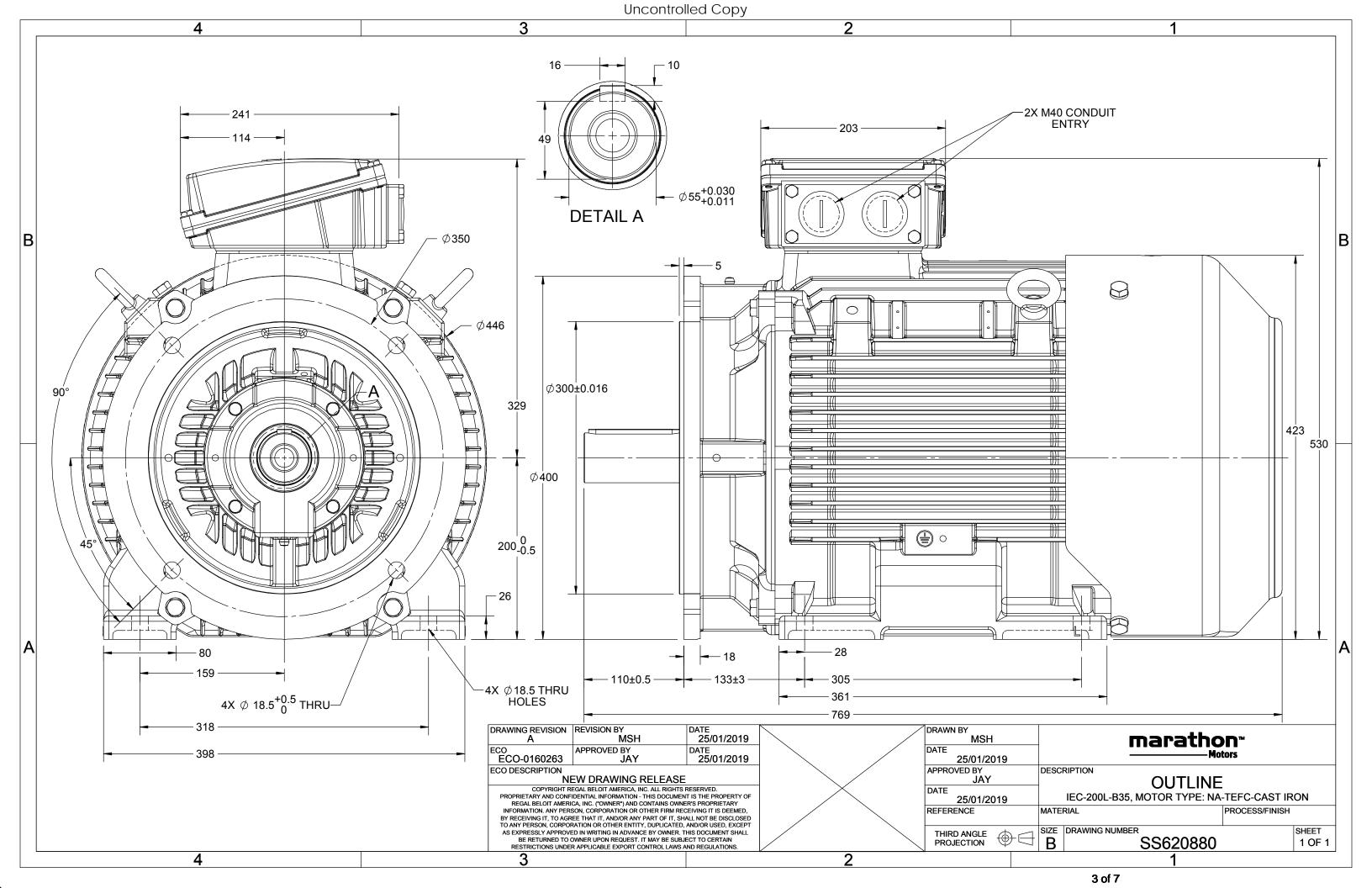
### Nameplate Specifications

Phase	3	Output HP	40 & 30 Hp				
Output KW	30.0 & 22.0 kW	Voltage	230/460 & 200/400 V				
Speed	3565 & 2970 rpm	Service Factor	1.15 & 1.15				
Frame	200L	Enclosure	Totally Enclosed Fan Cooled				
Thermal Protection	No Protection	Efficiency	92.4 & 92.7 %				
Ambient Temperature	40 °C	Frequency 60 & 50 Hz					
Current	92/46 & 80/40 A	Power Factor	88				
Duty	Continuous	Insulation Class	F				
Design Code	N (IEC)	KVA Code	F				
Drive End Bearing Size	6312	Opp Drive End Bearing Size	6212				
UL	Recognized	CSA	N				
CE	Υ	IP Code	55				
Number of Speeds	1	Efficiency Class	IE3				

## **Technical Specifications**

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	2	Rotation	Reversible
Resistance Main	.22 Ohms	Mounting	В3
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	IEC	Shaft Diameter	55.000 in
Assembly/Box Mounting	F3	Inverter Load	CONSTANT 2:1/VARIABLE 10:1
Connection Drawing	8442000715	Outline Drawing	SS620880

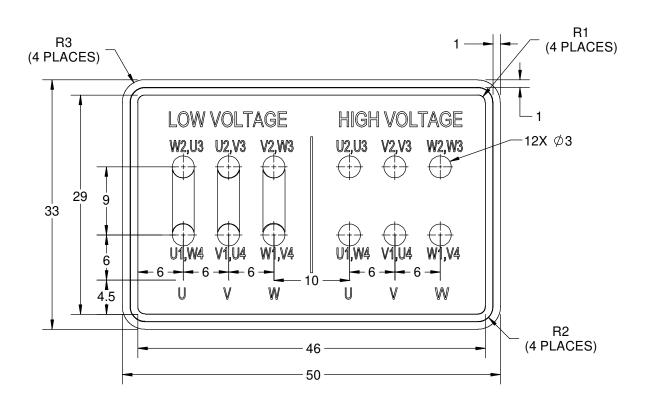
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DRAWING REVISION	REVISION BY	DATE					
Α	S.MUDDA	16/11/2020					
ECO	APPROVED BY	DATE					
ECO-0194685	SUMANTA	16/11/2020					
ECO DESCRIPTION							
NEW DRAWING							

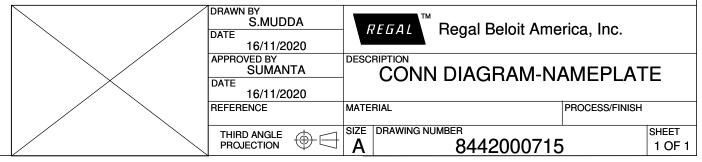
GEOMENTRIC TOLERANCE						
LINEAR DIM	>0~6	±0.1				
	>6~30	±0.2				
	>30~120	±0.3				



#### NOTES:

- PRESSURE-SENSITIVE ADHESIVE COATED PAPER ON THE BACK OF SELF-ADHESIVE. AT THE END OF YELLOW, WORDS, SYMBOLS, LETTERS ARE BLACK, BORDER IS BLACK. 1.
- 2.
- THE TOLERANCE OF THE LINEAR SIZE OF THE TOLERANCE WITHOUT THE TOLERANCE 3. BY THE TABLE.
- LEAD TERMINAL MARKINGS FONT SIZE: T1-T12 & U1-U4,V1-V4& W1-W4 OF ARIAL WITH 4. 3mm SIZE
- OTHER LETTER FONT SIZE SHOULD BE 3.5mm. 5.

8WD.442.2017





# **TerraMAX**<sup>™</sup>



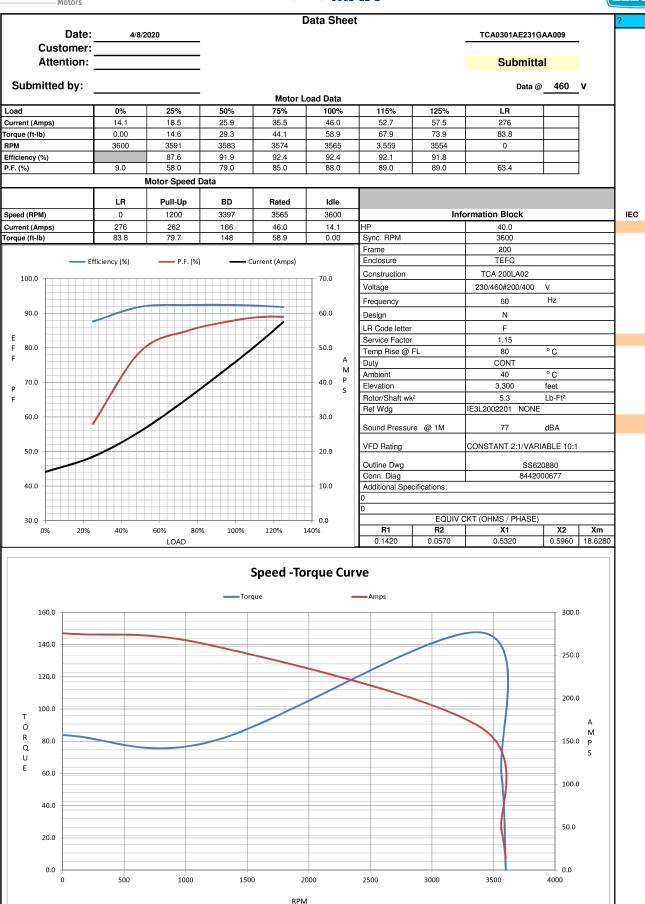
									P.O. BOX 8003 WAUSAU, WI 544 PH. 715-675-331 DATA VOLTS:			
CUSTOMER: CORDER #: CONN. DIAGRAM: 8442000677		8442000677	CERTIFICATION DATA SI			CUSTOMER P.O. #:		t: TCA0301AE231GAA009				
OUTLINE: WINDING: SPEED:		SS620880 IE3L2002201	NONE		-VDICAI	MOTOR PERFORMA		MER PART #: MOUNTING:				
НР	кw	SYNC RPM	FL	. RPM	IFICAL	FRAME		LOSURE	TYPE	KVA CO	DDE	DESIGN
40	30	3600	3	3565		200L	TEFC		TCA 200LA02	F		N
								-				
PH	HZ	VOLTS	А	MPS		START TYPE	D	UTY	INSL	S.F.	AMB (° C)	ELEV.(Ft.)
3	60/50	230/460#200/400	92/4	6&80/40	l	INE OR INVERTER	С	ONT	F	1.15	40	3300
	F.L. EFF	02.4	3/4 LD EFF	92.4	1	1/2 LD EFF	91.9	GTD EFF		ELECT. T	VDE	
		FF 92.4 3/4 LD EFF 92.4 PF 88.0 3/4 LD PF 85.0		1/2 LD PF	79.0	91.3	SQ CAGE INV RATED					
F.L	TORQUE	LR AMPS @	460 V		L.R.	TORQUE		B.D. TOR	QUE	F.L. RISE	(° C)	
58.9	LB-FT	276		83.8	LB-FT	142%	148	LB-FT	251% 80			
SOUND PRESSURE @ 3 FT. SOUND POWER				TOR WK <sup>2</sup> MAX. LOAD WK <sup>2</sup>		SAFE S	TALL TIME	STAR	rs/Hour	APROX.	MOTOR WGT	
77	dBA	86 <b>dBA</b>	5.3	LB-FT <sup>2</sup>	5.3	LB-FT <sup>2</sup>	15	SEC.		2	281	KG.
					*** SU	PPLEMENTAL INFORMA	TION ***					
DE BRACKET TYPE ODE BRACKET TYPE		MOUNT TYPE	MOTOR ORIENTATION SEVERE DUTY		HAZA LOC	RDOUS ATION	DRIP COVER SCREEN		PAINT			
FF-F	LANGE-350	STANDARD	B3	HORIZO	NTAL	NO	N	ONE	NO	NONE	BLUE (E	NAMEL)
DE BI	EARINGS ODE	GREASE	SHAF	T TYPE		SPECIAL DE	SPEC	IAL ODE	SHAFT	MATERIAL	FRAME N	IATERIAL
BALL 6312	BALL 6212	SG S5-V100	STANI	DARD IEC	NONE		NONE		1045 HOT ROLLED (C-204)		CAST IRON	
											1	
THERMOSTATS PROTECTORS  NONE NOT			IG RTD'S BRG RTD'S NONE NONE		THERMISTORS NONE		CONTROL FALSE		SPACE HEATERS NA			
	NONE	NOT	I IN	ONL		NONE	- IN	ONL		ALGE		in.
R1 (ohms/ph)		R2 (ohms/ph)		hms/ph)			Xm (ohms/ph)		VIBRATION (in/sec)		FLOAT	
	0.142	0.057	0	.532		0.596	18	3.628	0	.150	ODE	
* N O T									ERTER TORQUE: P SPEED RANGE:	CONSTANT 2:1/VAF	RIABLE 10:1	
E S *								ENCODER: NONE NONE			NONE	PPR
PREPARED BY:					BRAKE: NONE  NONE  NONE  NONE  NONE  NONE							
FORM: 3531 REV_4 2/27/06				VOLTAGE:         NONE         HZ:           UL:         V - LI,ME-INS,CONST UL REC								
I CINIVI. 33	∪ 1 1\∟ v_4	2121100					UL:	LI,IVIL-II10	JOHOT DE INEC			











REGAL



# **EC Declaration of Conformity**

The undersigned representing the manufacturer:

Regal Beloit America 100 East Randolph St. Wausau, WI 54401 and the authorized representative established within the Community:

Marathon Electric UK 6F Thistleton Road Ind. Estate Market Overton Oakham, Rutland LE15 7PP UK

are committed to providing customers with products that comply with applicable regulations and international protocols to which they are subject, including the requirements of the European Parliament Directive on the Harmonization of the laws relating to electrical equipment designed for use within certain voltage limits (2014/35/EU).

Regal Beloit America declares that the following product(s), to which this declaration relates, are in conformity with the relevant sections of the EC standards listed below.

This statement supersedes any statements previously issued pertaining to the product(s) listed below and is subject to change without notice.

Model No: TCA0301AE231GAA009

(Model No. may contain prefix and/or suffix characters)

Catalog No : R845
Rework No : N/A

#### **Directives:**

Low Voltage Directive 2014/35/EU

Harmonized Standards Used:

EN 60034-1: 2010 (IEC 60034-1: 2010)

Michael A Logsdon

EN 60034-5: 2001/A1:2007 (IEC 60034-5: 2000/A1:2006)

Authorized Representative:

<u>Authorized Representative in the Community:</u>

J. cers

Michael A. Logsdon Vice President, Technology

Created on 09/01/2022

Julian Clark Marketing Engineer

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